Xu Kaixuan

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Web developer experience, master degree

Objective: Web developer

Education

Nanjing University of Aeronautics and Astronautics	Sep.2015 – Apr.2018

- Major: Aerospace Propulsion Theory and Engineering, Master degree
- With excellent academic performance, excellent scholarship experience
- Major in computational mechanics courses, familiar with finite element software secondary development, optimization algorithm design and implementation, data processing and analysis.

Shanghai University of Engineering Science	Sep.2011 – Jun.2015

- Major: Aircraft maintenance, Bachelor degree
- GPA: 3.6/4.0, **CET6**, First scholarship experience

Professional Skills

Familiar with **Front-end system** knowledge, as well as   **Spring Boot, Node** development experience

React development experience, familiar with **React Hooks, Redu**x and other development patterns

Familiar the development of Web components . Experience in using Jenkins to build CI/CD pipeline

Familiar browsers internals, DOM API also DevTools, with practical experience in performance optimization

Familiarity with front-end engineering tools, ability to configure **NPM scripts** or implement Node CLi

Familiar with **Java** Stream API, understand basic IO, JVM, concurrency, message queue, etc and also have some practical experience

Others :

Understanding of common data structures, algorithms, basic design patterns and able to in practice

Good English communication, reading and writing

Full-stack web development skills, familiar with micro-services pattern, with Docker, K8S experience, self-learning Spark and other big data related knowledge.

Project & Work Experience

Institute of Advanced Technology, Zhejiang University	Apr.2018 - Feb.2019

- Work in the team of Aircraft automated assembly team
- Responsible for structural design CAE simulation of aircraft automatic assembly equipment.

Siemens Digital Industries Software (Shanghai) co. LTD   Mar.2019 - Dec.2020

- Siemens Web Framework -- developer
- Responsible for the web framework development of the company's cloud platform infrastructure. Specifically, I am responsible for the implementation of various web components and the maintenance of the component library website, as well as the replication of component library related E2E testing and regression fix work. I have deep understanding of user interaction, state management and component reuse. Participated in the migration of the old and new frameworks, understand the basic react design ideas, familiar with the construction of the web infrastructure platform and component library release management.

Details:

1. pop-up module development, solve the smart positioning calculation of each pop-up kind component, also the unification of state management and event binding

2. Implemented various types of components, including layout, form, utilities, drag and drop, etc.

3. Based on NPM Script workflow configuration, realize the automatic generation of Change Log when the component library is released

4. Daily iteration development of the component library website, adding multi-theme settings, full-text search and other functions to the component library website

SAP China Research Institute (Shanghai)   CALM department   Dec.2020 -

- I am mainly responsible for developing life cycle management services for Cloud platform applications, and my team is responsible for the management module of software development implementation (similar to Jira kind Web Service). My day-to-day work includes working with product managers to understand requirements, evaluate projects, split tasks, and perform daily development. I am responsible for the development of agile-related features and the refactoring and optimization of the Change Log module. The product is based on micro-service architecture, and has served nearly 1000 SAP enterprise users.

Agile modules includes:
1. Project, task display page, edit page implementation, including dynamic response layout, pop-ups, permission management, content synchronization, accessibility and a series of complex logic
2. Project, task list page grouping/sorting based on the combination of various attributes, also including the co-editing and uploading/downloading
3. Develop various API End Points for front-end UI or Service-to-Service call
4. Receive, process, and distribute upstream and downstream messages based on permission changes, content changes, etc.
5. Maintenance E2E testing, performance testing and design documentation update

Change Log module refactoring optimization:

1. Performance test analysis, locate the root cause of performance bottlenecks

2. Change Log SQL re-optimization design, eliminate the back-end aggregation calculation logic

3. Design zero downtime data migration scheme and implement

4. Work with front-end lazy loading to achieve the new REST API interface and other work

Interests

Teamwork and enthusiastic. Strong desire to accept new things and challenges.

Self-evaluation

I am a web developer with at least 3 year's direct web development experience. And I host a master's degree in computational mechanics which require both solid knowledge of mathematics and programming.

I can adapt to the environment quickly and drive myself to paced fast.   Also, I love programming and have strong ability in problem-solving, especially in information gathering and understanding the new things then in practice. I'm familiar with the agile pattern of daily development works and with experience of collaborating cross-group. I also have strong desire to accept new things and challenges and I strive to be an excellent software engineer.Just cherish this job opportunity very much, Thanks!

Others:

Github: https://github.com/xkx9431

Nodejs internals: https://github.com/theanarkh/understand-nodejs/   (Main Contributor)

Component library: https://xkx9431.github.io/kwf

Spark internals: https://xkx9431.github.io/spark-internals/